Supplemental Table 1. Multivariable linear regression models of the association of clinical variables with measures of esophageal epithelial barrier structure (ICS diameter, Desmosome density) and function (Fluorescein leak).

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| --- | --- | --- | --- | --- | --- |
|  | Model for ICS Diameter |  | Model for Desmosome Density |  | Model for Fluorescein Leak |
| Variables | Coefficients | p value |  | Coefficients | p value |  | Coefficients | p value |
| Obesity+ | 0.3573 | 0.004\*\* |  | -0.1865 | 0.0641 |  | 16.1003 | 0.0112\* |
| GER+ | 0.2041 | 0.087 |  | -0.2352 | 0.0225\* |  | 13.6197 | 0.0301\* |
| Male Gender | -0.1345 | 0.2682 |  | -0.0927 | 0.3672 |  | -4.1128 | 0.5069 |
| Age | 0.0017 | 0.6436 |  | 0.0001 | 0.9704 |  | 0.1361 | 0.4966 |
|  |  |  |  |  |  |  |  |  |
| Multiple R2 | 0.3019 |  | 0.2199 |  | 0.3235 |
| Adjusted R2 | 0.21273 |  | 0.1253 |  | 0.2268 |
| p-value | 0.0159\* |  | 0.0769 |  | 0.0233\* |